

Transmeta™ Crusoe™ Embedded System Development Kit

Optimized for Microsoft® Windows® CE.NET.

Perfect for Microsoft® Windows® XP Embedded.

Product Overview

The Transmeta Crusoe Embedded System Development Kit (ESDK) is a highly optimized and cost-effective reference platform for evaluating the Transmeta Crusoe processor and for developing embedded mobile devices for use with Microsoft Windows CE.NET and Windows XP Embedded operating systems.

The ESDK features the low power, high performance Transmeta Crusoe TM5800 800 MHz processor with built-in Northbridge functionality—consisting of SDR and DDR DRAM memory controllers, a serial ROM interface, and a PCI bus interface—that facilitates system design, reduces board space, enhances performance, and provides best in-class performance for Microsoft Windows CE.NET.

The compact design of the ESDK and inherent energy efficiency of the Transmeta Crusoe processor with LongRun™ power management technology provides the perfect reference platform for developing handheld mobile devices, Smart Displays, point-of-sale (POS) systems, thin clients, set top boxes, and other portable consumer devices.

The Transmeta Crusoe ESDK includes a PCI expansion daughterboard with two PCI slots and supports any standard PCI 2.1 compliant external cards.



Development Kit Specifications

- Crusoe TM5800 800MHz processor with integrated Northbridge
- ULI® 1535+ Southbridge
- Phoenix Technologies™ BIOS
- One DDR socket with 128MB DDR-266 SODIMM
- Type-III Mini-PCI connector
- Two ATA 100 EIDE 44-Pin Headers
- AC97 CODEC
- Audio Line Out
- Audio Mic In
- LVDS Video Out
- VGA Out
- Compact flash connector
- Serial port header connector
- Two USB 1.1 Type A connectors
- One USB 1.1 Type A 8-pin dual USB header
- One USB 1.1 Type B connector
- Keyboard and Mouse interface
- Touch panel connector
- Transmeta Debug Connector
- LCD Backlight Connector
- GPIO header for additional features

Development Kit Contents

- ESDK motherboard 6.0" x 7.0" (152mm x 178mm)
- ESDK PCI expansion daughterboard
- AC power supply and cable
- Rechargeable Li-ion battery
- 64 Mbyte Compact flash card
- Two IDE cables
- LCD cable
- VGA cable
- Mini-USB Type B cable
- Complete documentation on CD-ROM including device drivers
- Board Schematics in OrCad and PDF
- 6 months Warranty (see User's Guide)



BIOS Support

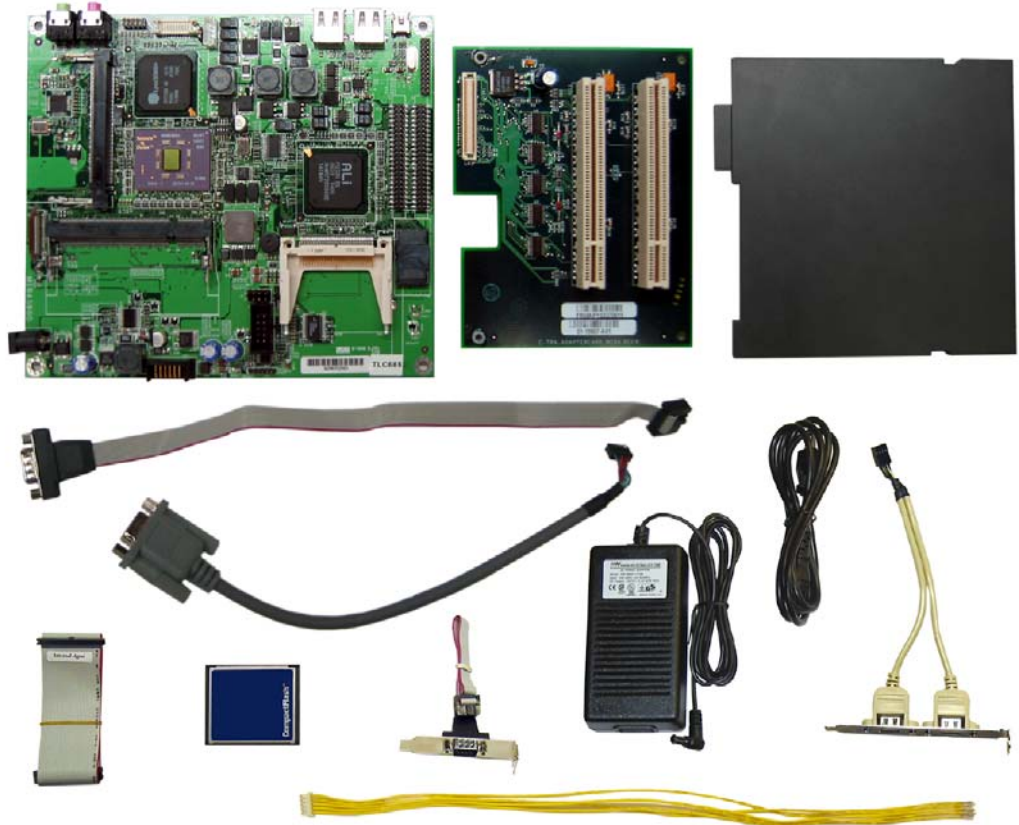
Transmeta Crusoe processors are fully supported by the major BIOS manufacturers including American Megatrends Inc., General Software, Insyde Software, Inc.™, and Phoenix Technologies™. A Microsoft Windows CE.NET bootloader is provided with the kit.

Evaluation Software

The Transmeta Crusoe ESDK contains certified board support packages (BSPs) for Microsoft CE.NET® 4.1 and 4.2. A BSP for Microsoft Windows XP® embedded is also included. All ESDK board components have readily available optimized device drivers.

Vibren™ System Integration

Transmeta has chosen Vibren Technologies as the system integrator of choice for the Transmeta Crusoe ESDK. Vibren provides professional software and services including client side application integration services, test services, silicon-system level software, board support packages, custom applications, device driver development, and BIOS development.



For more information, visit www.transmeta.com/developers/devkit.html

Embedded Development Kit part number: 800881

For more information, visit www.transmeta.com

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